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**PATENT**

Applicant: **Marcus A. Horwitz et al.**  
Serial No.: **08/786,533**  
Filed: **January 21, 1997**  
Title: **ABUNDANT EXTRACELLULAR PRODUCTS & METHODS FOR THEIR PRODUCTION & USE**  
Examiner: **K. Canella**  
Group Art Unit: **1645**  
Atty Docket No.: **510030-143**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE****AMENDMENT**

Commissioner for Patents  
Washington, D.C. 20231

Sir:

Pursuant to the Office Action dated October 2, 2002, Applicants respond as follows:

Please amend claims 1, 2, 3, 6, 7, 8, 11, 12, 14, 15, 17, 18, 20, 21, 23, and 25 as follows:

1. A vaccinating agent for use in promoting an effective immune response, in a mammalian host, against an infectious pathogen from the genus Mycobacterium, said vaccinating agent comprising:

at least a portion of at least one majorly abundant secreted extracellular product selected from the group consisting of M. tuberculosis 110 KD protein, 80 KD protein, 71 KD protein, 58 KD protein, 45 KD protein, 30 KD protein, 24 KD protein, 23.5 KD protein, 23 KD protein, 16 KD protein, 14 KD protein, 12 KD protein and respective analogs, homologs, and subunits thereof; and

an adjuvant selected from the group consisting of IL-12 and MF 59.

2. The vaccinating agent of claim 1 wherein said at least one majorly abundant secreted extracellular product is M. tuberculosis 30 KD protein.

3. The vaccinating agent of claim 1 wherein said at least one majorly abundant secreted extracellular product is a mixture of M. tuberculosis 32A KD protein, 30 KD protein, and 16 KD protein.

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**FAX COVER LETTER**

October 16, 2002

**TO:** U.S. Patent and Trademark Office  
**EXAMINER:** K. Canella  
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**FROM:** Louis C. Cullman  
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**RE:** Applicant: Marcus A. Horwitz et al; S/N: 08/786,533; Filed: 01/21/1997  
Our File No. 510030-143 – Response to Office Action dated October 2, 2002

**COMMENTS:** Please see attached.

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